

In the Claims

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Claim 1 (Currently amended): A brake assembly including a selectively movable member providing a variable angle of inclination which varies in response to a variance in friction between a brake rotor and a pad; and a controller assembly, which is coupled to said selectively movable member, which selects a certain amount of self-energization, and which moves said selectively movable member by a certain amount in order to cause said member to provide said certain selected amount of self-energization.

Claims 2 – 4 (Cancelled)

Claim 5 (Currently amended): The brake assembly of Claim [[4]] 1 wherein said member comprises a wedge.

Claim 6 (Currently amended): The brake assembly of Claim [[5]] 1 wherein said brake assembly further includes a pin about which said wedge selectively rotates and which is coupled to said ~~rotor~~ pad.

Claim 7 (Currently amended): The brake assembly of Claim [[4]] 1 wherein said pad is biased against said rotor by a biasing spring.

Claim 8 (Currently amended): The brake assembly of Claim [[4]] 1 further comprising a motor assembly which is coupled to said controller and to said selectively movable member.

Claim 9 (Original): The brake assembly of Claim 8 wherein said brake assembly further comprises an intermediate gear portion and a screw actuator which is coupled to said motor assembly.

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Claim 10 (Currently amended): A brake assembly comprising a rotor member; a pad member which may selectively engage said rotor member, thereby generating a certain amount of friction; a wedge member; and a controller which measures said certain amount of friction further and, in response to said measurement, rotates said wedge member by a certain amount[[.]], with said brake assembly further comprising a motor which is coupled to said controller and to said pad member by means of a gear assembly, with the motor and gear assembly causing said pad member to selectively engage said rotor and said wedge member.

Claims 11 – 12 (Cancelled)

Claim 13 (Currently amended): The brake assembly of Claim [[13]] 10 wherein said gear assembly comprises an intermediate gear portion and a screw actuator.

Claim 14 (Currently amended): The brake assembly of Claim [[11]] 10 further including a caliper which has a pocket portion which operatively receives said wedge member.

Claim 15 (Currently amended): The brake assembly of Claim [[1]] 10 wherein said brake assembly further includes a biasing spring which is coupled to said pad member and which biases said pad member against said wedge member.

Claim 16 (Currently amended): A method for braking a vehicle comprising the steps of sensing a desired amount of braking; providing a certain actuation force; selecting a certain amount of self-energization; providing said certain amount of self-energization; using said provided actuation force and said certain amount of self-energization to brake said vehicle[[.]], where said step of providing said certain amount of self-energization comprises the steps of providing a wedge member; and, moving said wedge member to cause said wedge member to provide a certain angle of inclination, effective to provide a certain amount of self-energization.

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Claim 17 (Cancelled)

Claim 18 (Original): The method of Claim 16 wherein said step of providing an actuation force comprises the steps of providing a motor; and causing said motor to provide said actuation force.

Claim 19 (Original): The method of Claim 16 wherein said step of sensing a desired amount of braking comprises the steps of providing a selectively movable braking member; and sensing an amount of movement of said selectively movable braking member.

Claim 20 (Currently Amended): The method of Claim ~~[[17]]~~ 16 further comprises the step of providing a biasing spring; and coupling said biasing spring to said pad member, effective to bias said pad member against said wedge member.
